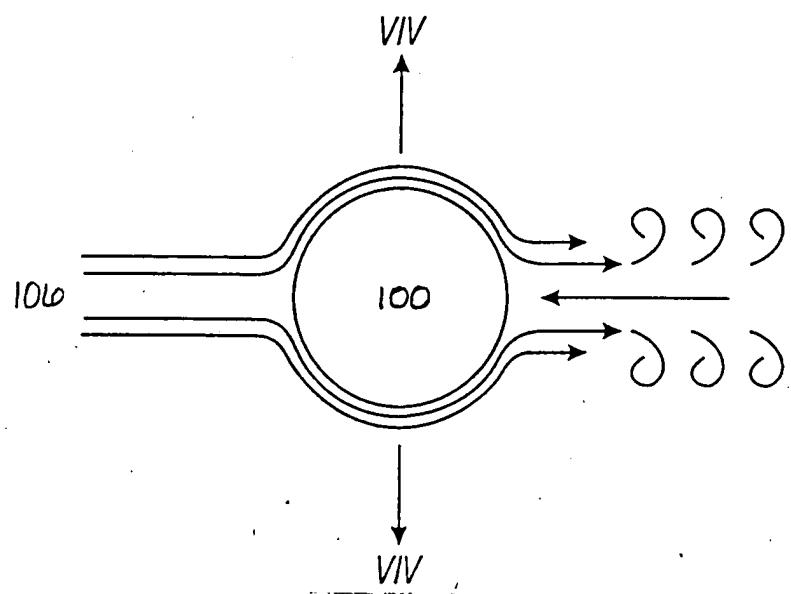
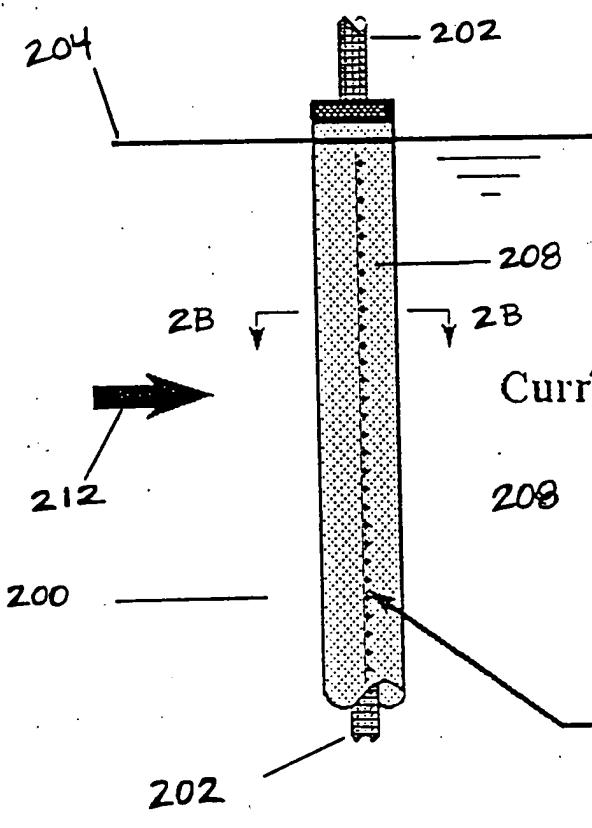


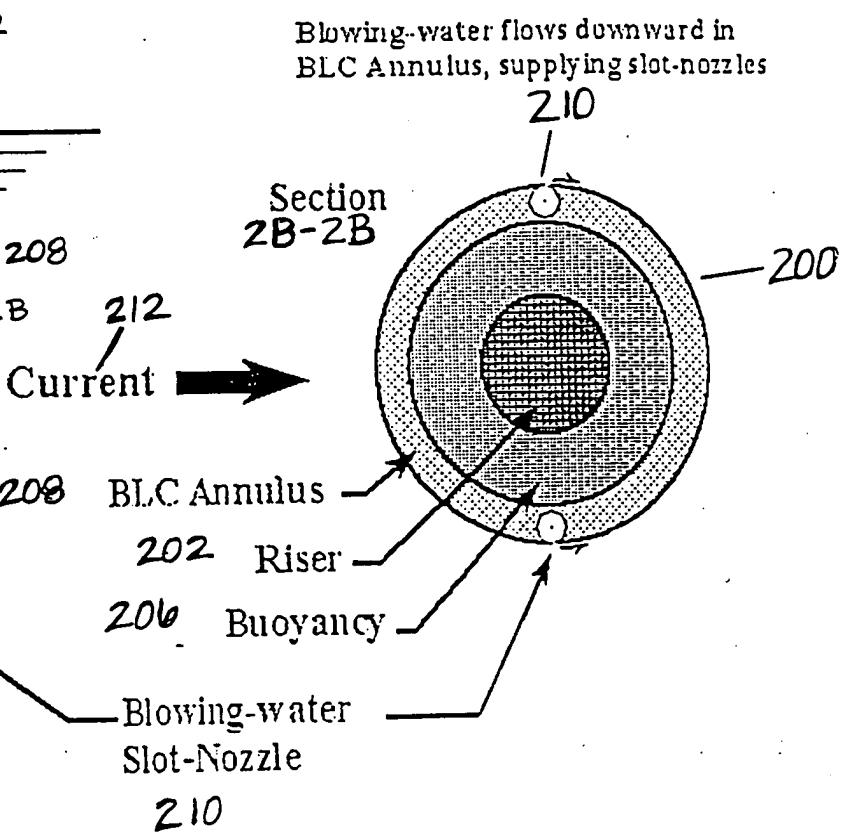
**FIGURE 1A**



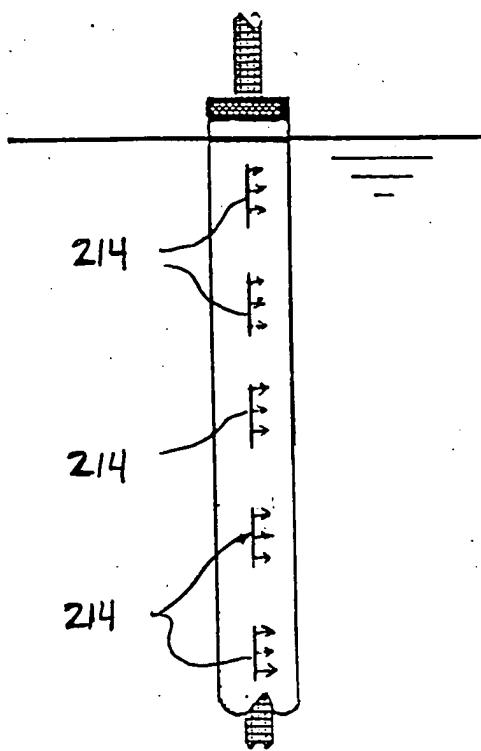
**FIGURE 1B**



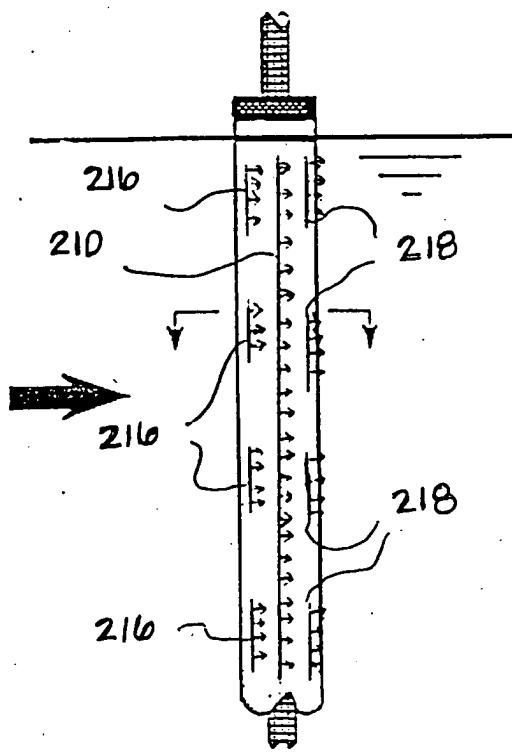
**FIGURE 2A**



**FIGURE 2B**



**FIGURE 2C**



**FIGURE 2D**

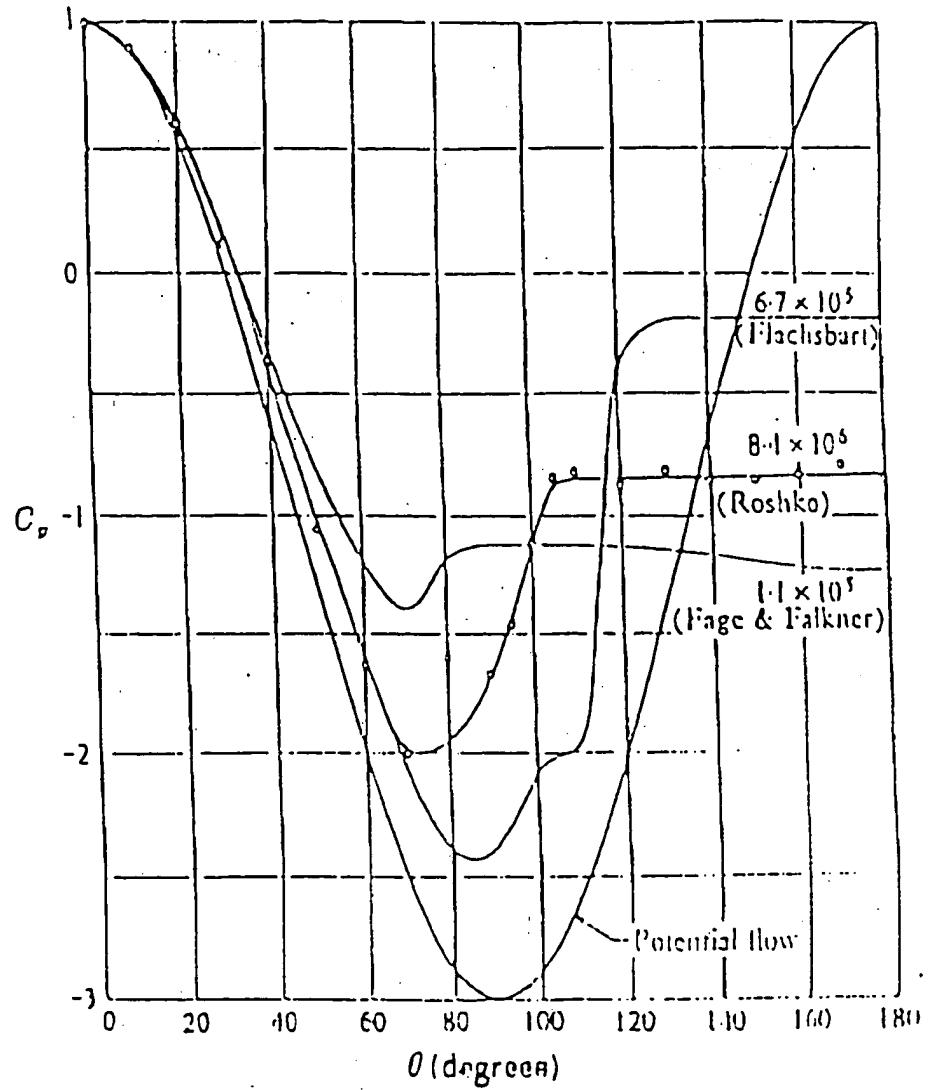
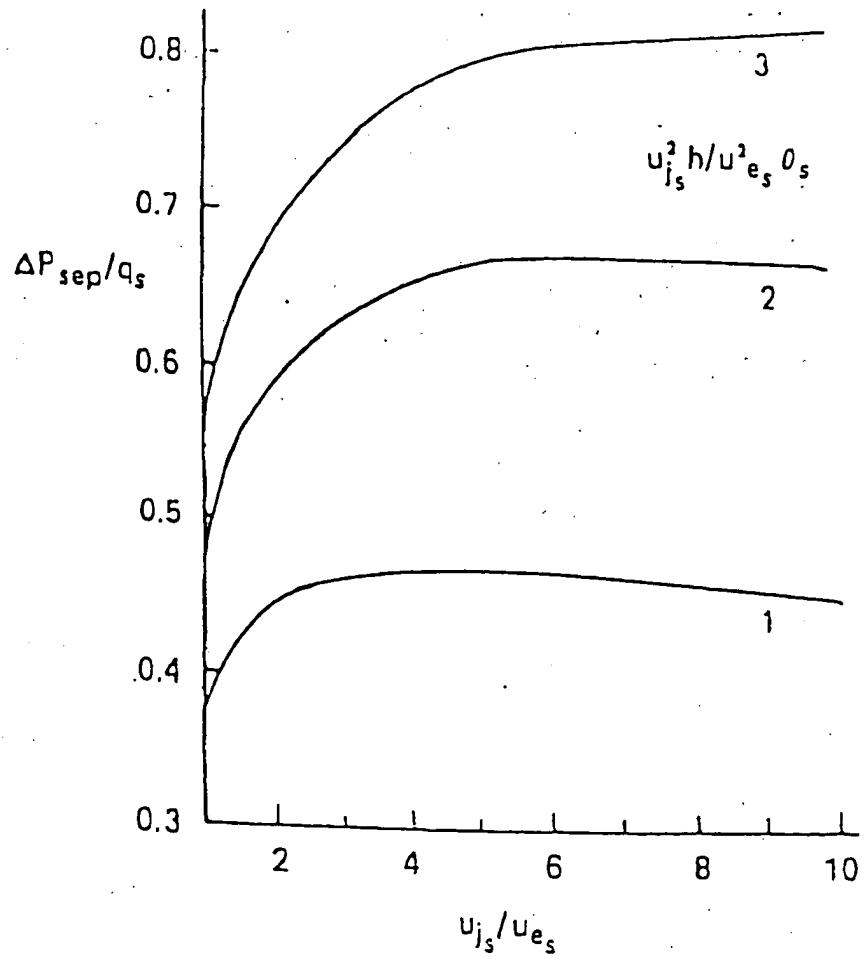
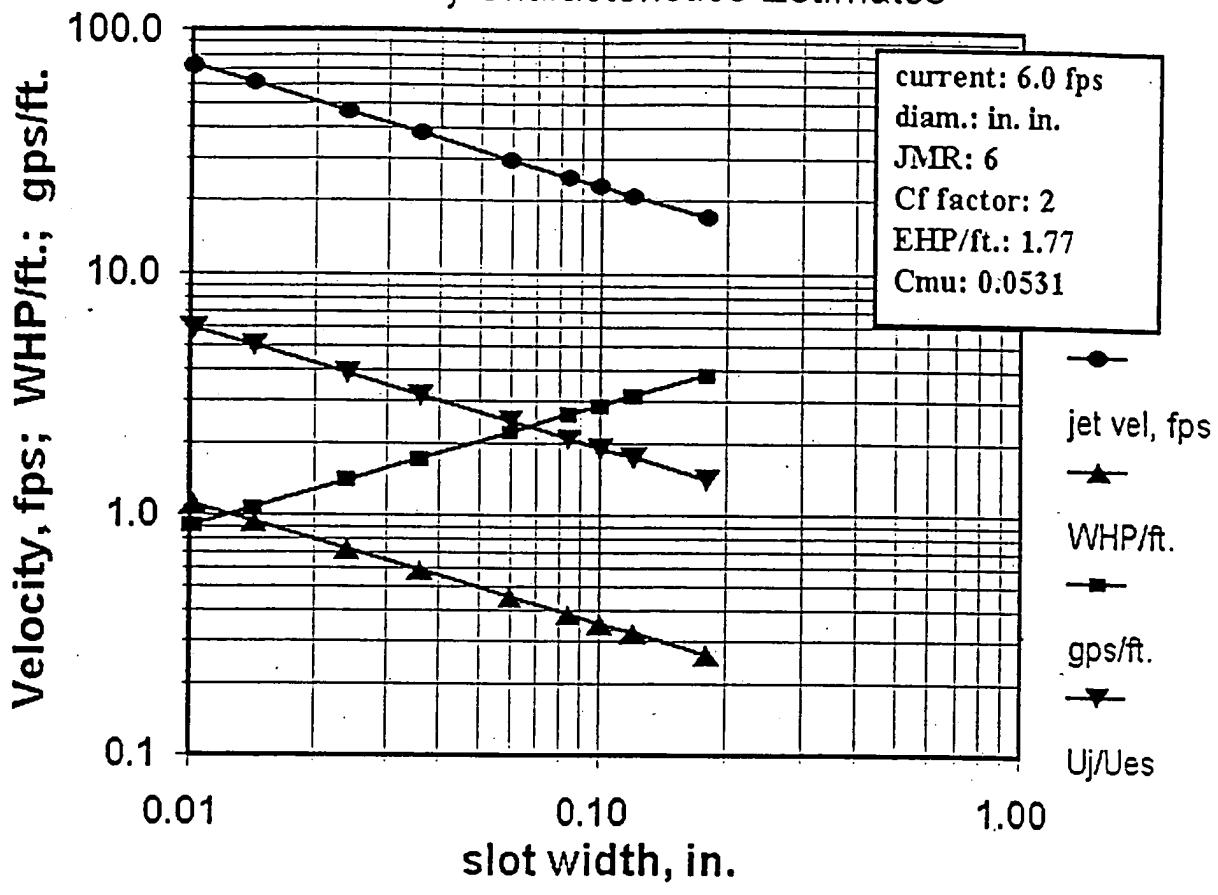


FIG. 3 Pressure Distribution on a circular cylinder



**FIG. 4. Pressure rise to separation  
(From Hubbart & Bangert, 1970).**

**FIG. 5 Drilling Riser BLC System**  
**Preliminary Characteristics Estimates**



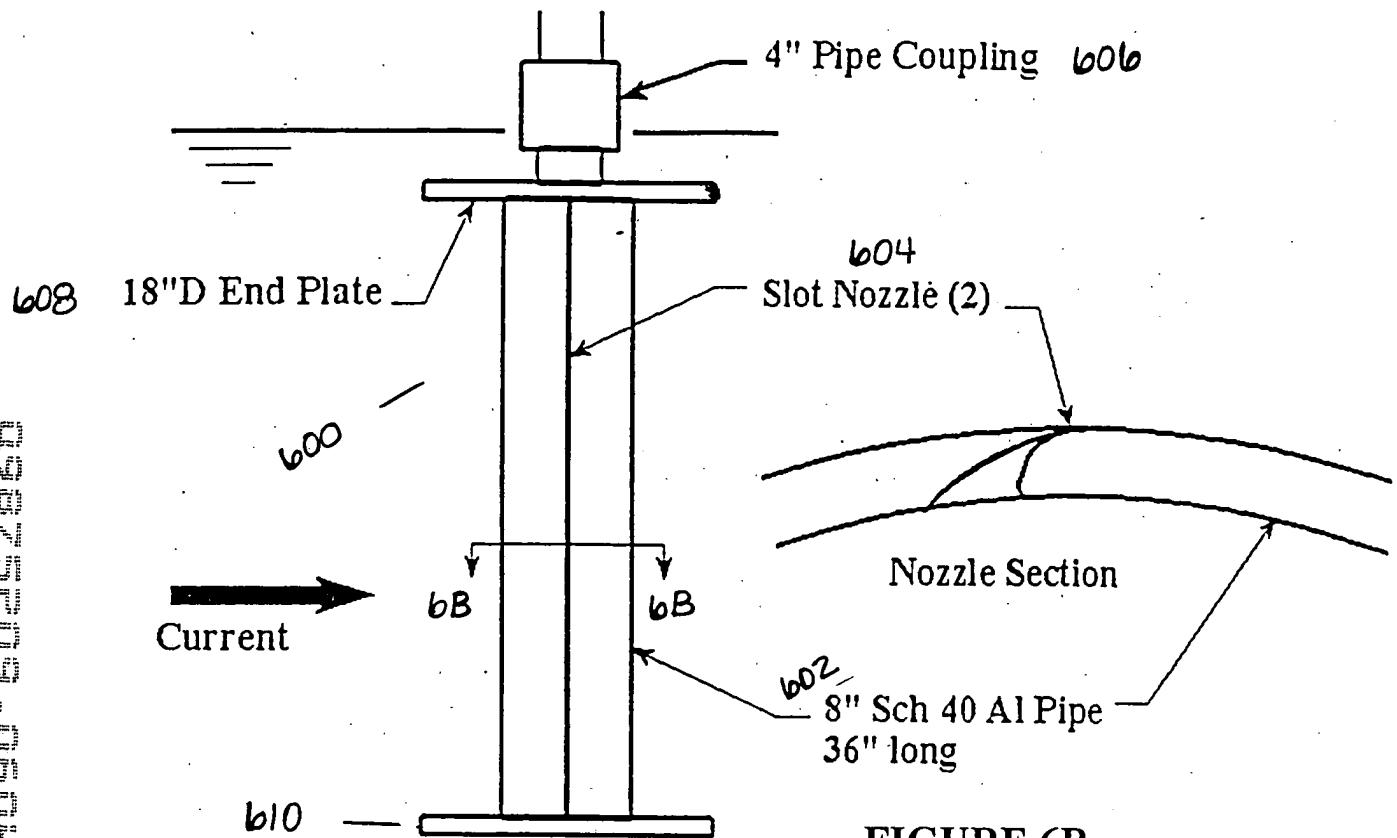
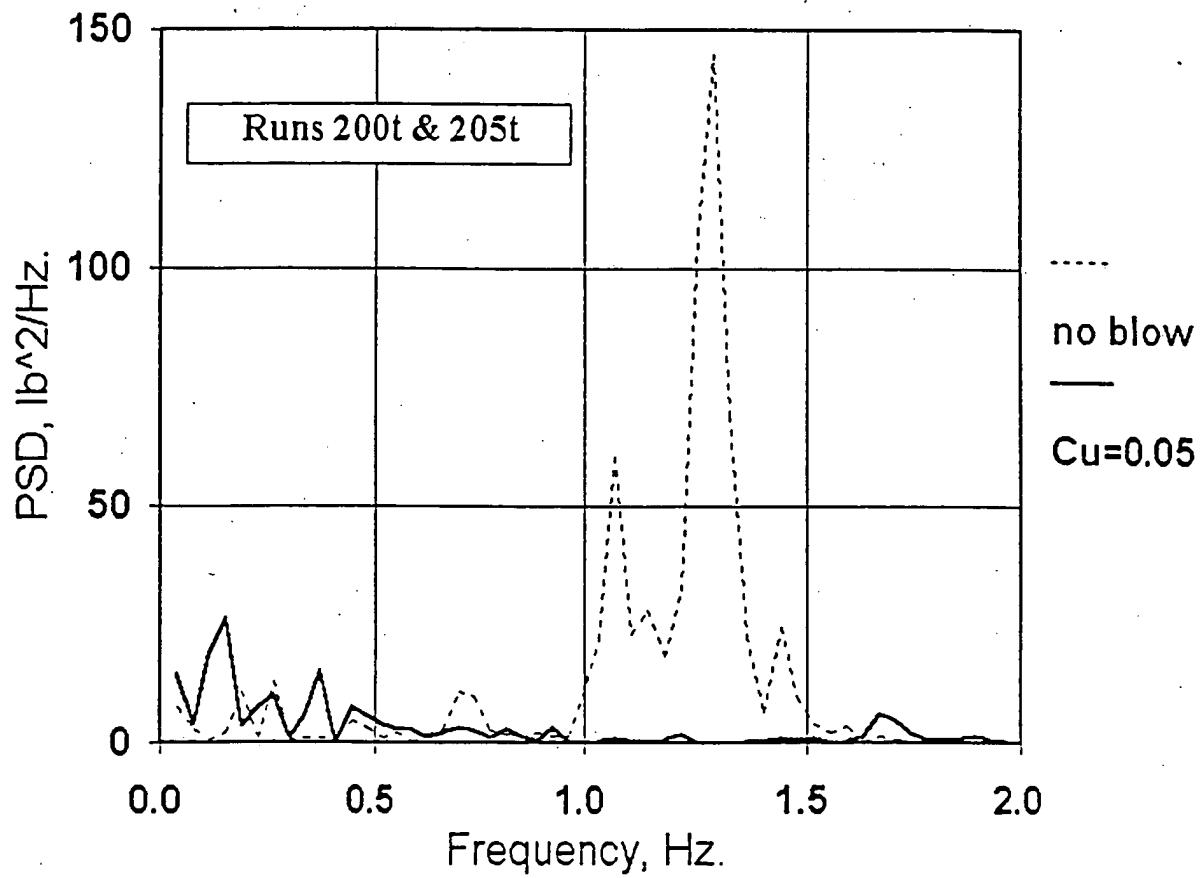


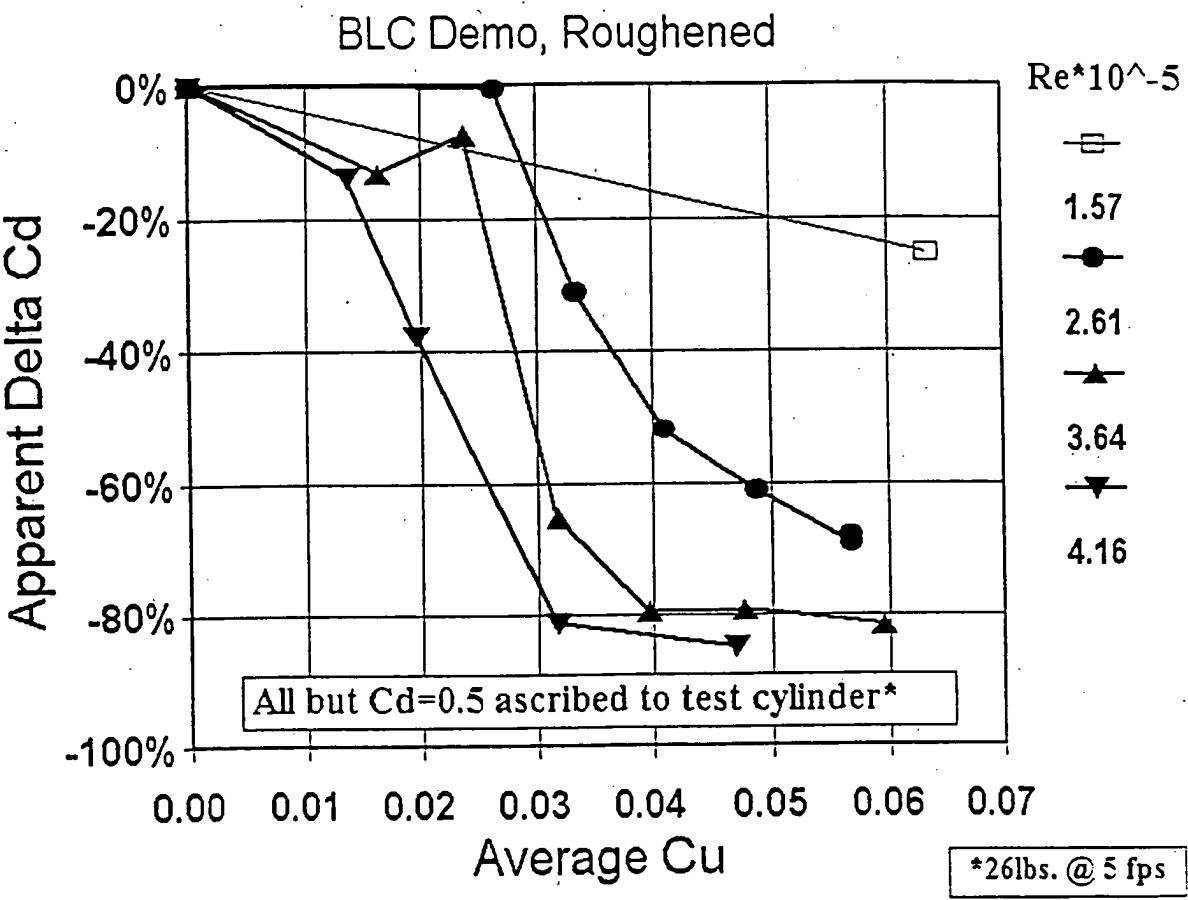
FIGURE 6B

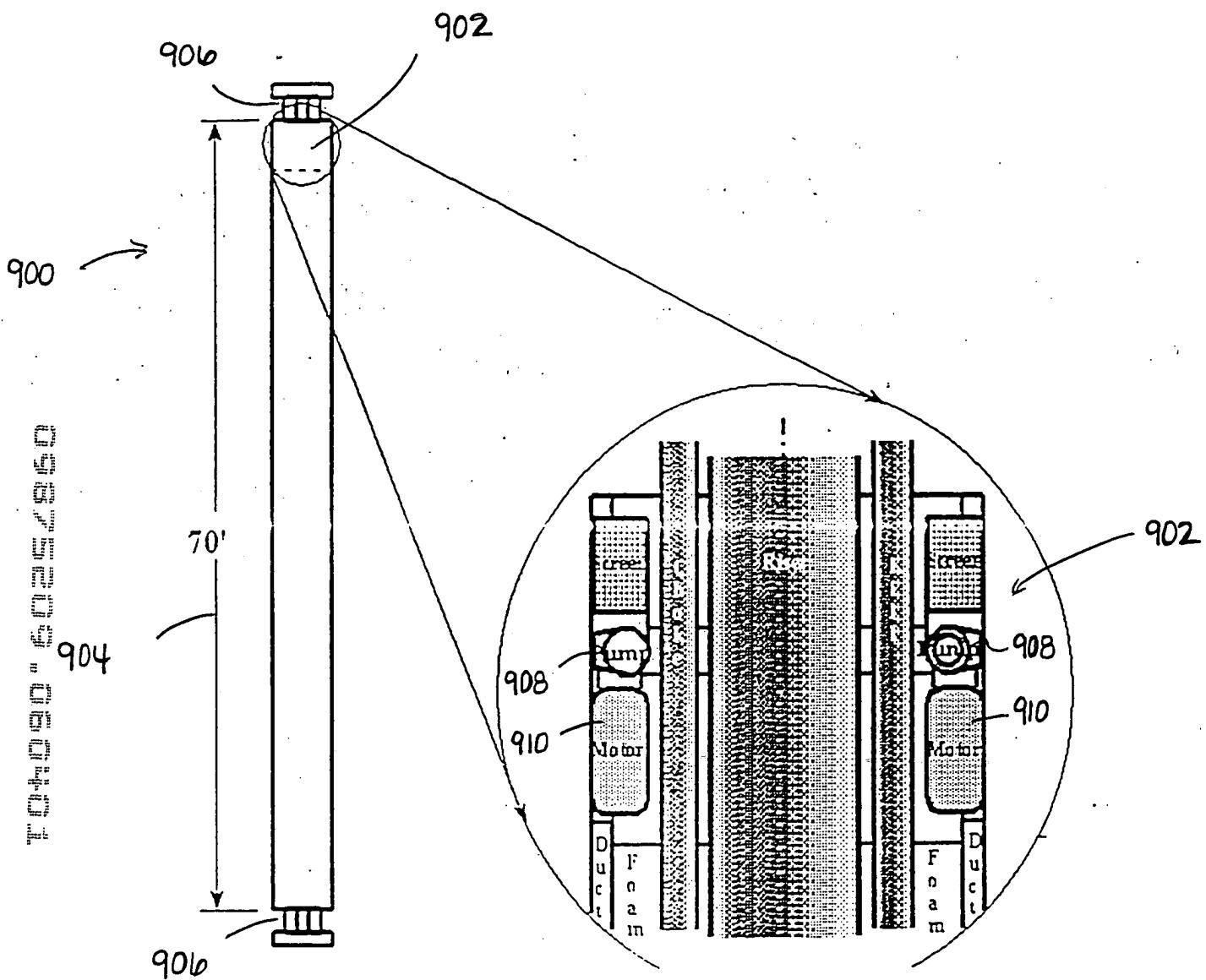
FIGURE 6A

**FIGURE 7. VIV Lateral Force PSD; 5 fps**



**FIGURE 8. Apparent Delta Cd vs Cu & Re**





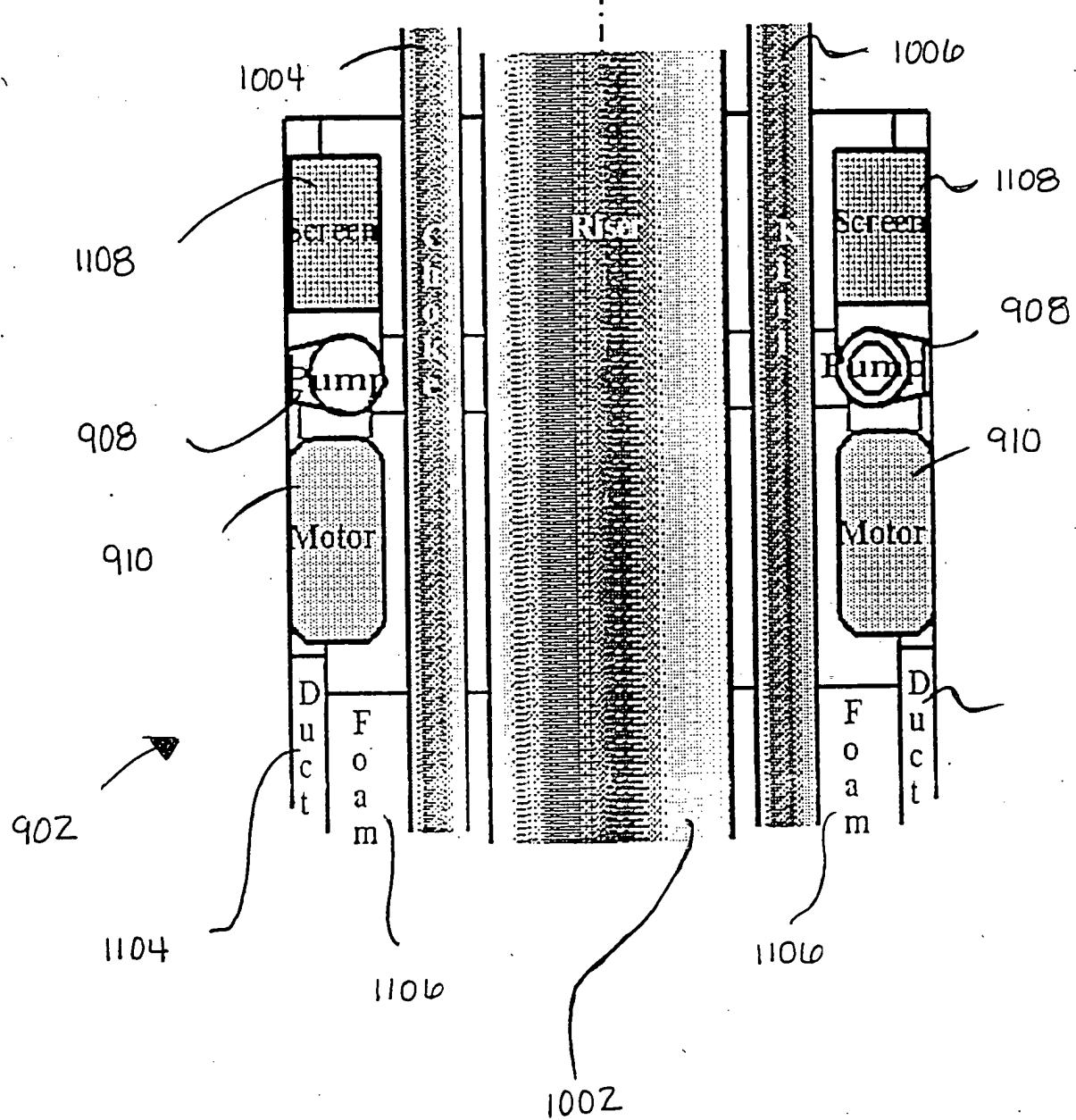


FIGURE 10

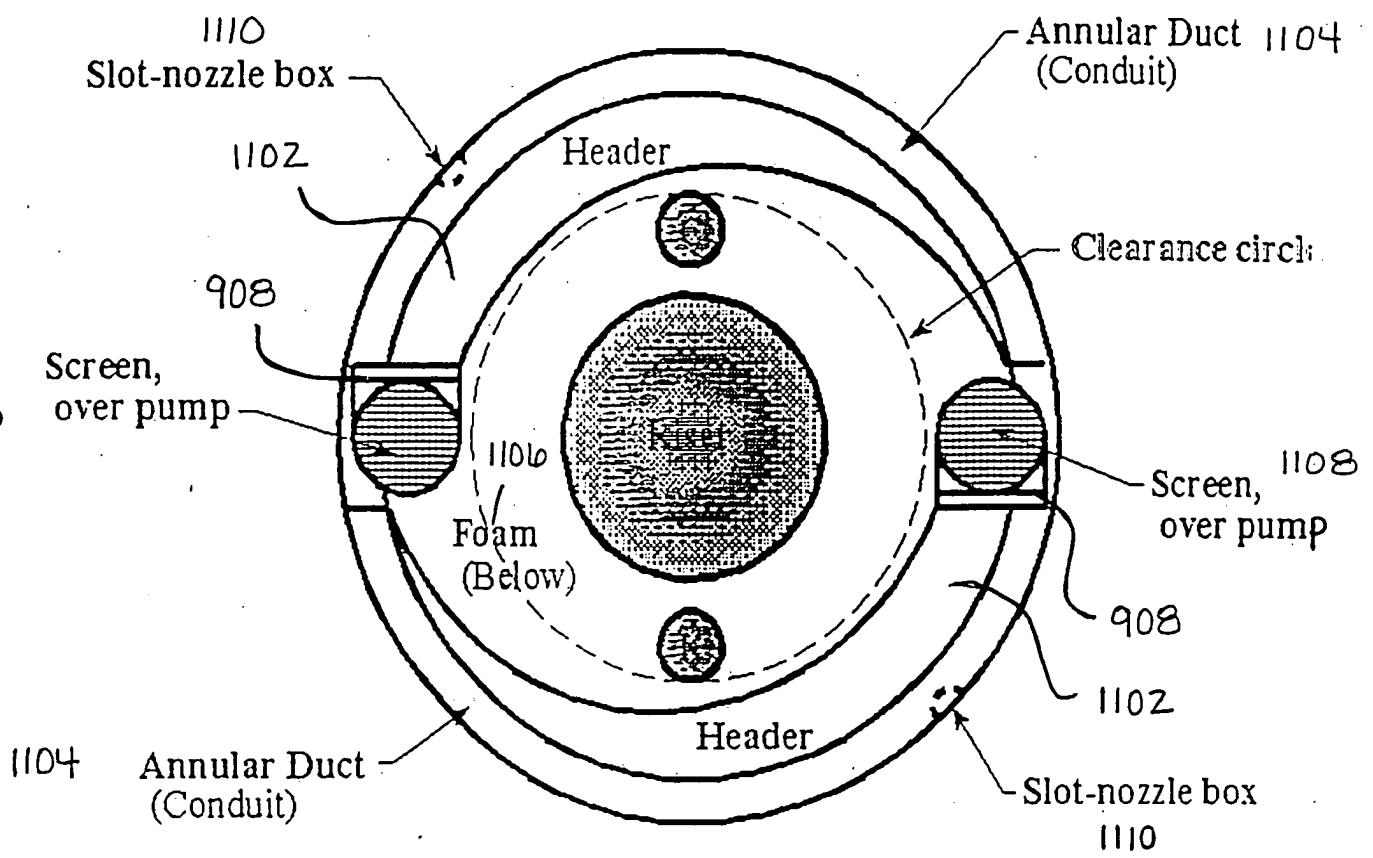


FIGURE 11

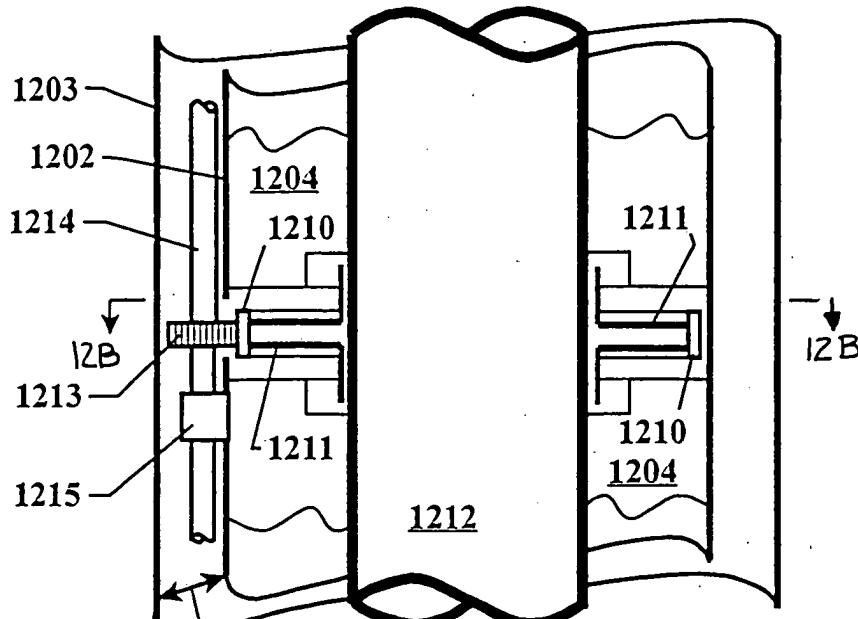


FIGURE 12A

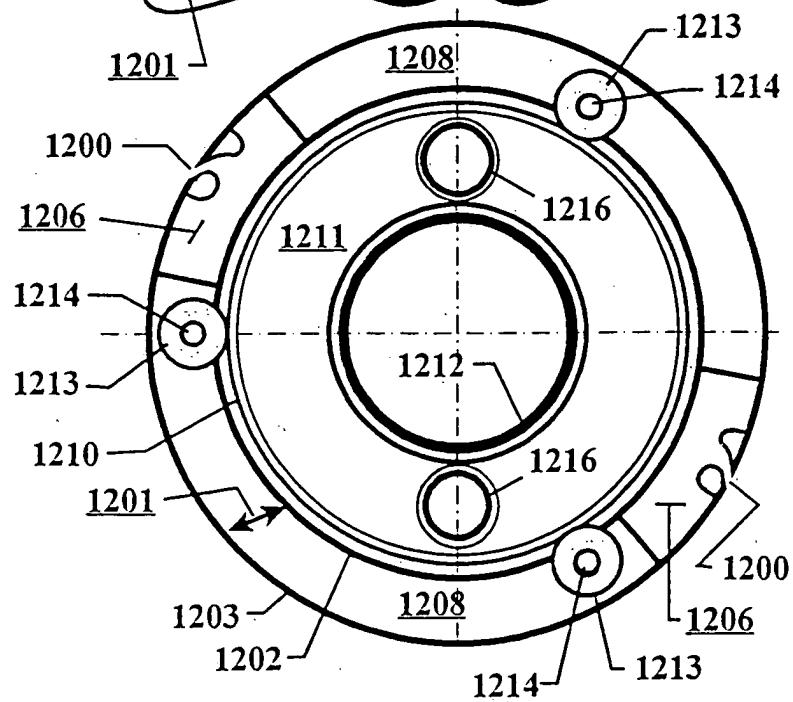


FIGURE 12B

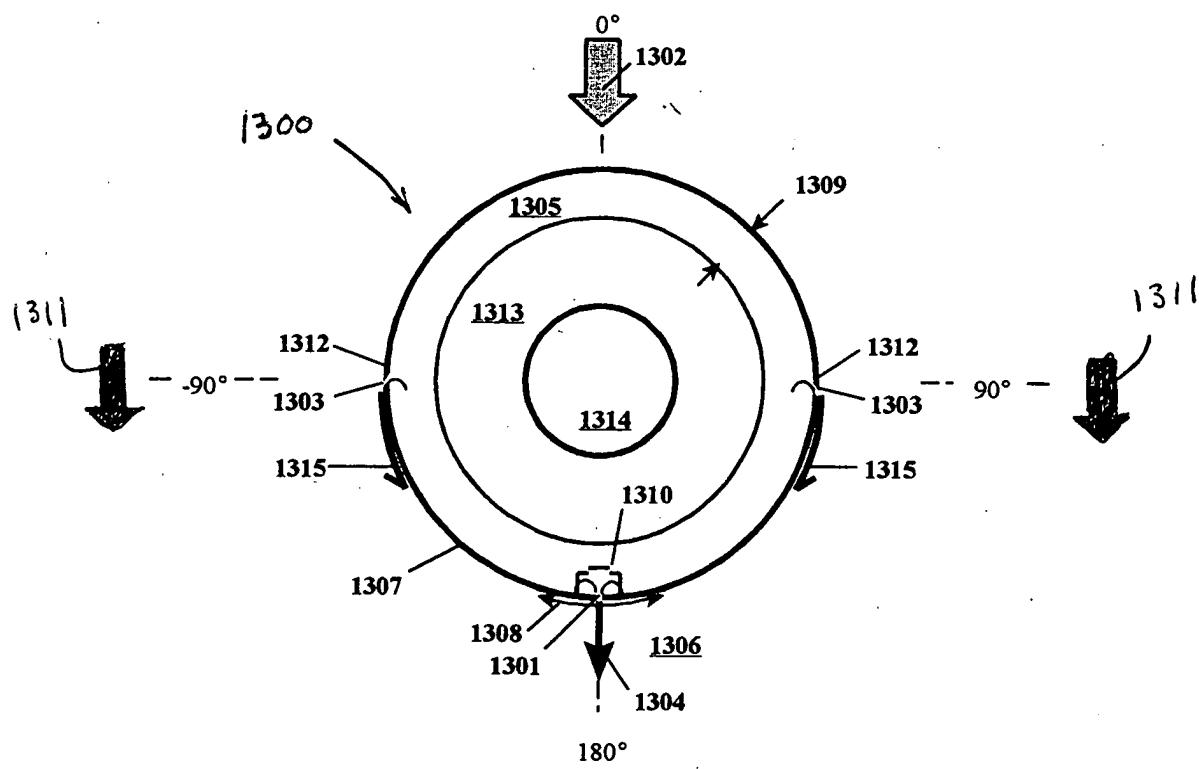
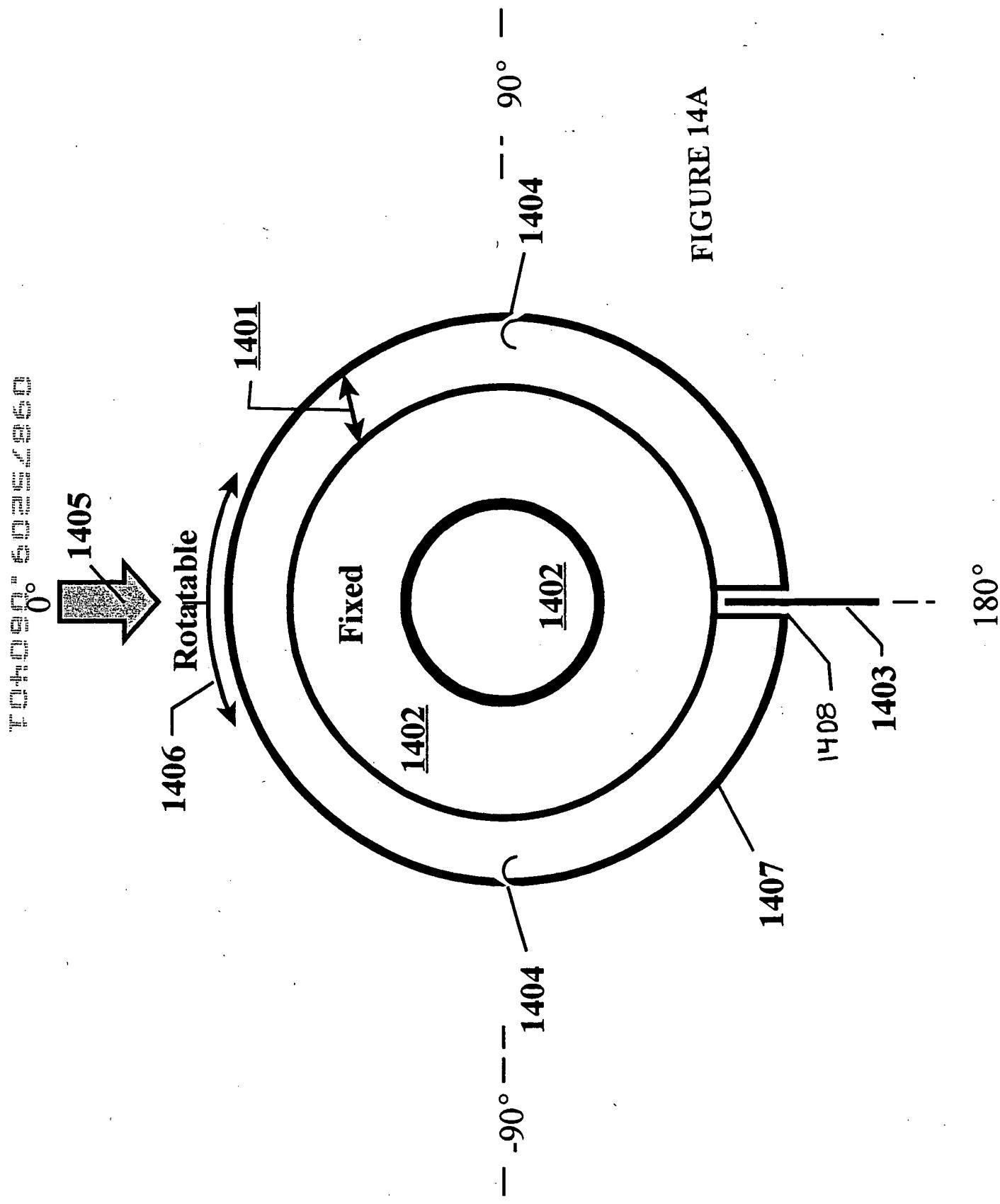
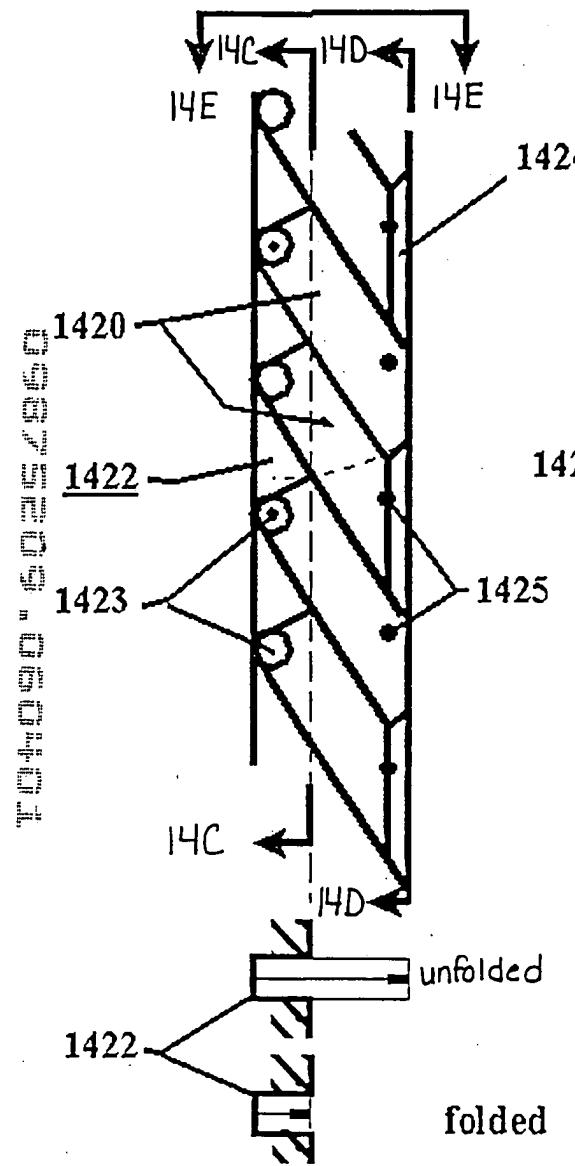


Figure 13

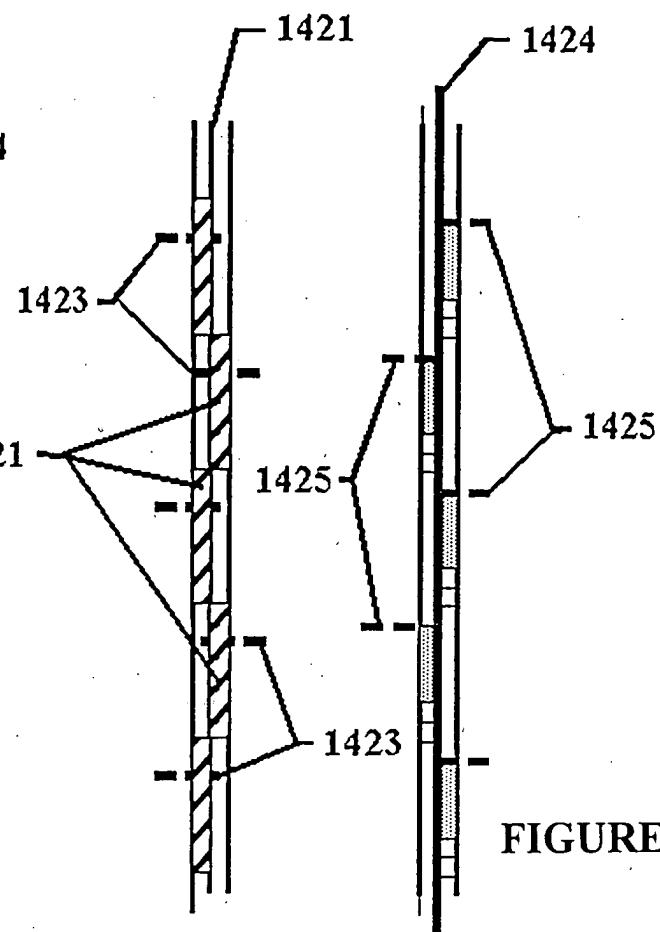
FIGURE 14A



**FIGURE 14B**



**FIGURE 14C**



**FIGURE 14D**

**FIGURE 14E**

**Folding Tail-Fin  
for Riser BLC and  
similar applications**

000000000000000000000000

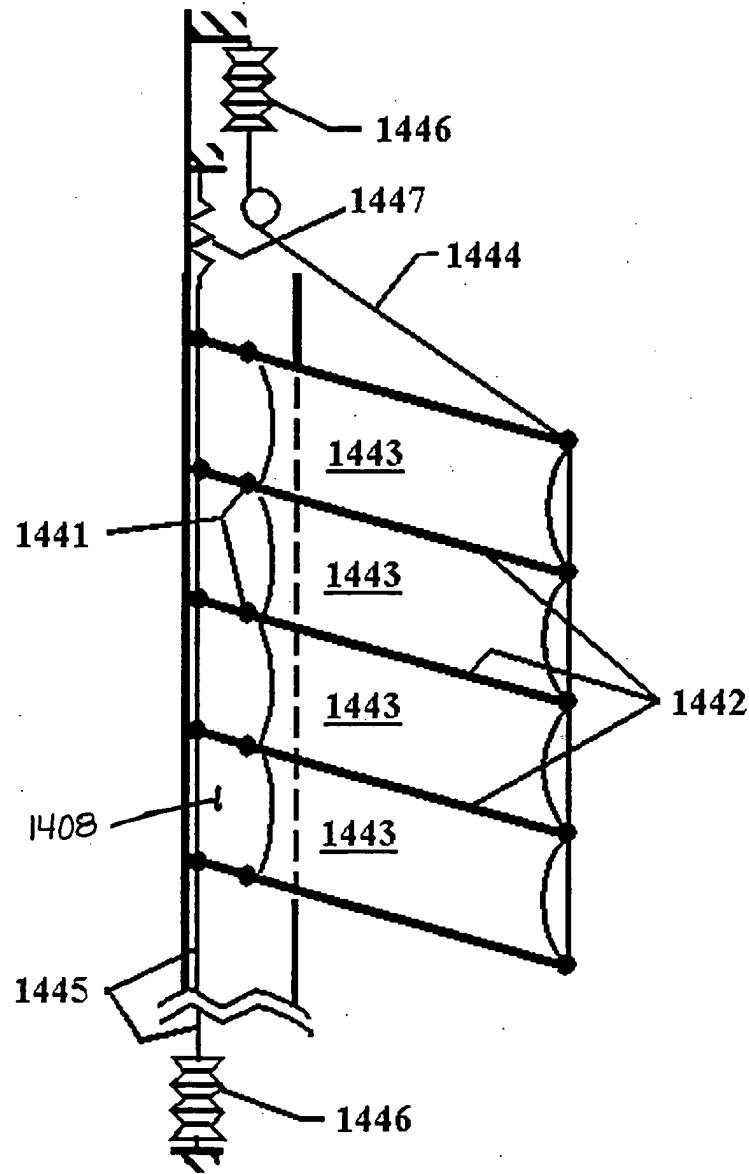
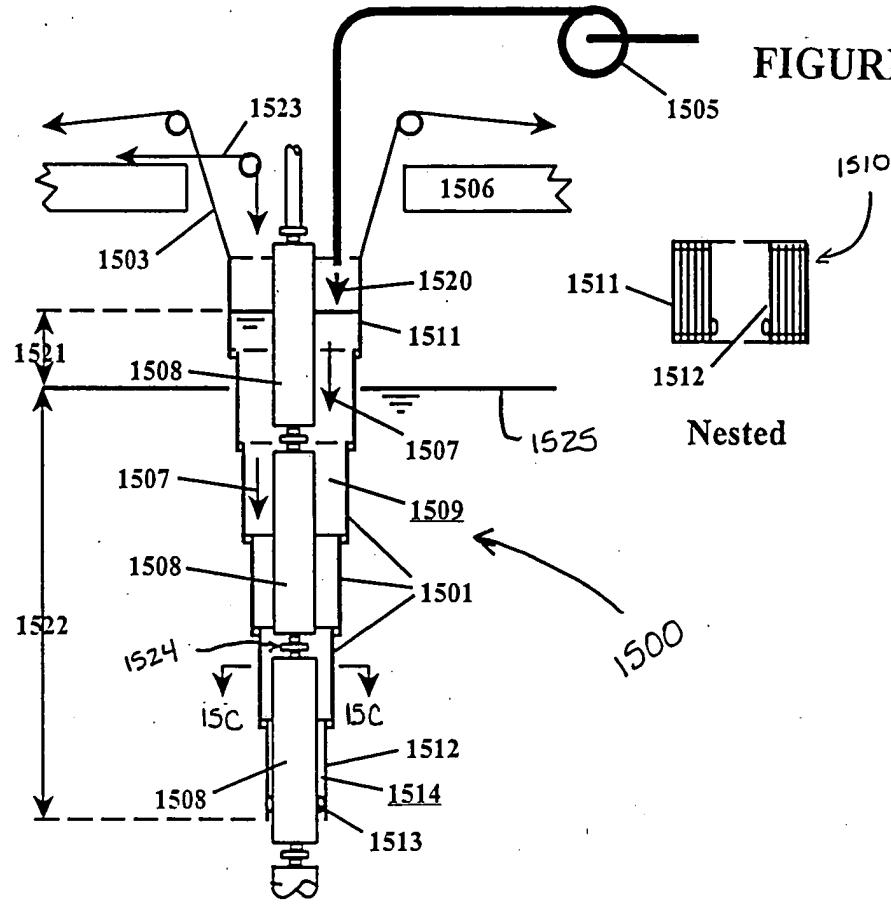
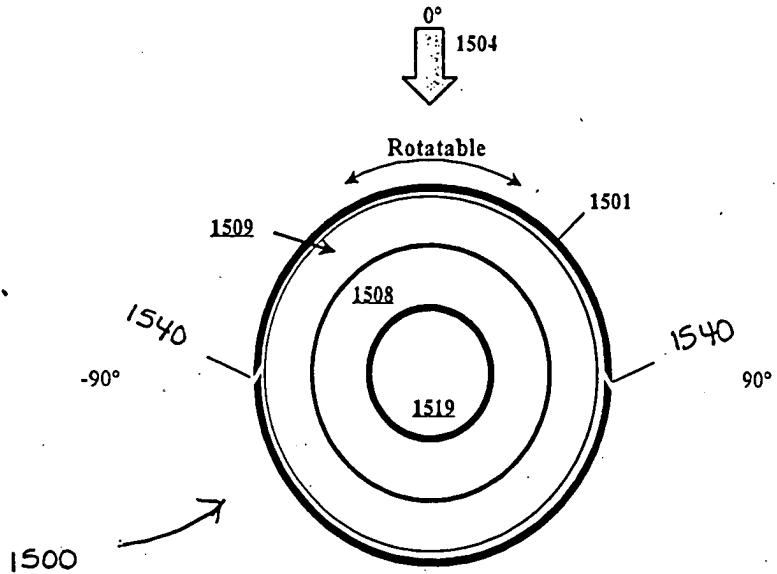


FIGURE 14F

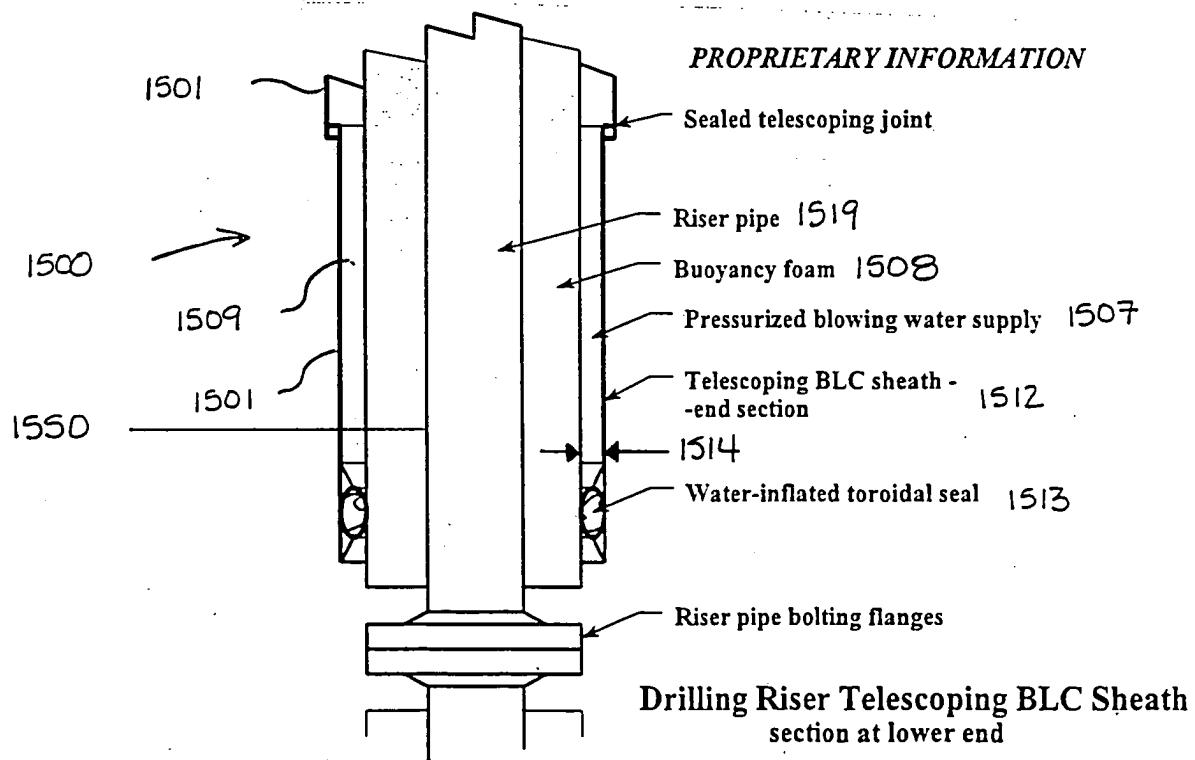


## FIGURE 15B

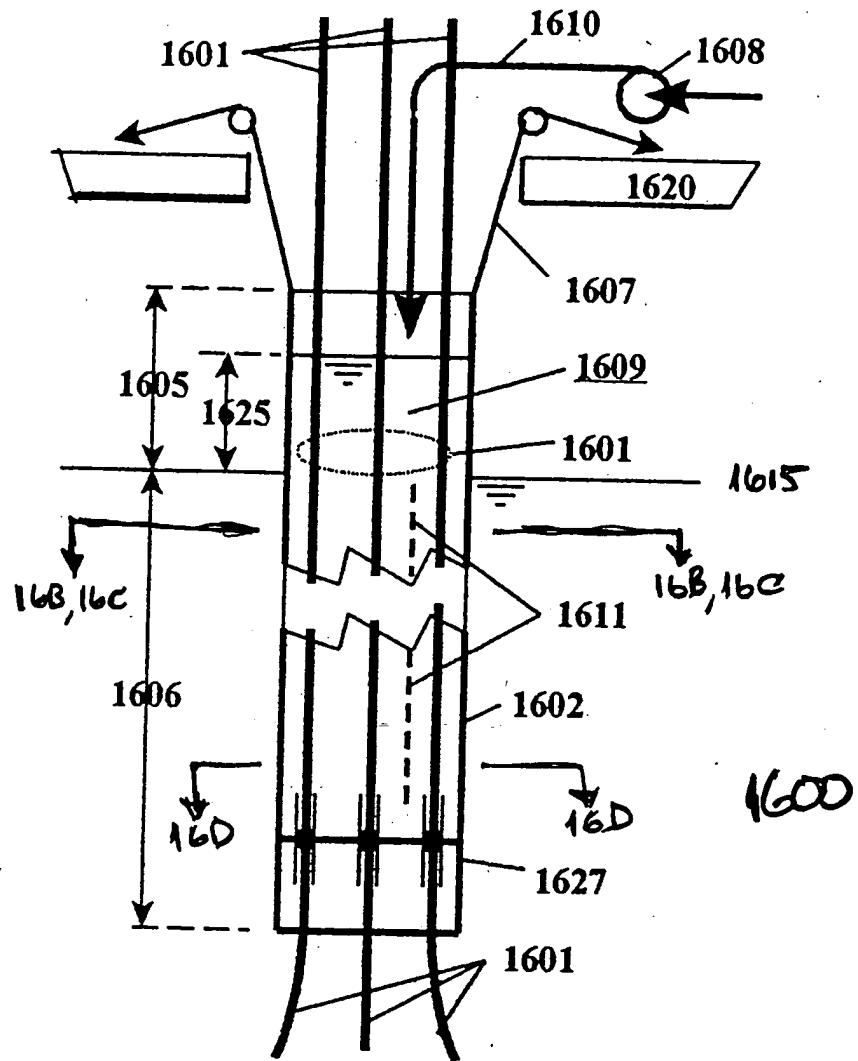




**FIG. 15C Drilling Riser BLC, Telescoping Sheath Section**



**FIG. 15D Drilling Riser BLC, Telescoping Sheath Lower End**



**Figure 16a**

